## CLAIMS

What is claimed is:

1. A sealant coating to seal and coat stucco, said sealant coating comprising:

water;
ceramic microspheres;
polymeric microspheres; and
a resin binder.

- 2. A sealant coating as claimed in claim 1 wherein said ceramic microspheres comprise a multiplicity of hollow ceramic shells having diameters of at least 100  $\mu m$ .
- 3. A sealant coating as claimed in claim 2 wherein said hollow ceramic shells have diameters of 120-150  $\mu m\,.$
- 4. A sealant coating as claimed in claim 1 wherein said polymeric microspheres comprise a multiplicity of hollow polymeric shells having diameters of 25-60  $\mu m$ .
- 5. A system as claimed in claim 4 wherein each of said hollow polymeric shells is formed of vinylidene chloride and acrylonitrile.
- 6. A sealant coating as claimed in claim 1 wherein said resin binder comprises an aqueous copolymer emulsion.

7. A sealant coating as claimed in claim 6 wherein said aqueous copolymer emulsion comprises:

styrene monomers; and acrylic monomers.

- 8. A sealant coating as claimed in claim: 1 additionally comprising:
  - a polyol;
  - an ester alcohol;
  - a defoamer;
  - a pigment;
  - a polysiloxane emulsion;
  - a dispersant;
  - a surfactant;
  - a pH adjuster;
  - a preservative; and
  - a thickener.
- 9. A sealant coating as claimed in claim 8 wherein said polyol comprises diethylene glycol.
- 10. A sealant coating as claimed in claim 8 wherein said pigment comprises a white hiding pigment
- 11. A sealant coating as claimed in claim 10 wherein said white hiding pigment comprises titanium dioxide.
- 12. A sealant coating as claimed in claim 8 wherein said pH adjuster comprises monoethanolamine.

- 13. A sealant coating as claimed in claim 8 wherein said antimicrobial preservative comprises dimethyloldimethyldantoin.
- 14. A sealant coating as claimed in claim 8 wherein said thickener comprises a cellulosic thickener.
- 15. A method for the production of a sealant coating for stucco, said method comprising:
  - a) charging a mixer with water;
  - b) adding ceramic microspheres to said mixer;
  - c) adding polymeric microspheres to said mixer;
  - d) adding a resin binder to said mixer;
- e) mixing said water, said ceramic microspheres, said polymeric microspheres, and said resin binder to produce said sealant coating.

16. A method as claimed in claim 15 wherein:

after said charging activity a) and prior to said adding activity b), said method additionally comprises:

- f) adding a polyol to said mixer;
- g) adding a dispersant to said mixer;
- h) adding a surfactant to said mixer;
- i) adding a first quantity of a defoamer to said mixer;
- j) adding a thickener to said mixer; and
- k) adding a pH adjuster to said mixer;

said adding activity b) adds a first quantity of said ceramic microspheres to said mixer;

after said adding activity b)) and prior to said adding activity c), said method additionally comprises:

- 1) adding a quantity of a pigment to said mixer;
   after said adding activity c) and prior to said adding
  activity d), said method additionally comprises:
- m) adding a preservative to said mixer; and
   after said adding activity d) and prior to said mixing
  activity e), said method additionally comprises:
  - n) adding an ester alcohol to said mixer;
  - o) adding a polysiloxane emulsion to said mixer;
  - p) adding a second quantity of said ceramic microspheres to said mixer; and
  - q) adding a second quantity of said defoamer to said mixer.

17. A method as claimed in claim 16 wherein: said method additionally comprises obtaining said mixer; prior to said adding activity f), said method additionally comprises setting said mixer to a first speed;

after said adding activity j) and prior to said adding activity k), said method additionally comprises adjusting said mixer from said first speed to a second speed;

during said adding activity b), said method additionally comprises adjusting said mixer from said second speed to a third speed;

after said adding activity b), said method additionally comprises mixing contents of said mixer at said third speed to produce an intermediate slurry;

after said adding activity d) and prior to said adding activity n), said method additionally comprises adjusting said mixer from said third speed to a fourth speed;

during said adding activity p), said method additionally comprises adjusting said mixer from said fourth speed to a fifth speed; and

after said adding activity p), said method additionally comprises mixing contents of said mixer at said fifth speed to produce said sealant coating.

18. A method as claimed in claim 17 wherein; said first speed is less than said second speed; said second speed is less than said third speed; said third speed is greater than said fourth speed; and said fourth speed is 'less than said fifth speed.

19. A system to seal and coat stucco, said system comprising:
a substantially waterproof and breathable sealant coating
applied over said stucco; and

a water-resistant acrylic paint applied over said stucco after application of said sealant coating.

- 20. A system as claimed in claim 19 additionally comprising a water-repellent preconditioner applied over said stucco before application of said sealant coating.
- 21. A system as claimed in claim 20 wherein said preconditioner comprises:

water;

an acrylic primer; and

a water-repellent siliconate solution configured to bond with cement within said stucco.

22. A system as claimed in claim 21 wherein said siliconate solution is an aqueous sodium methyl siliconate solution.

23. A system as claimed in claim 19 wherein said sealant coating comprises:

water;

- a polyol comprising diethylene glycol;
- a dispersant;
- a surfactant;
- a defoamer;
- a cellulosic thickener;
- a pH adjuster comprising monoethanolamine;

ceramic microspheres comprising a multiplicity of hollow ceramic shells having diameters of 120-150  $\mu m$ ;

a white hiding pigment comprising titanium dioxide; polymeric microspheres comprising a multiplicity of hollow polymeric shells having diameters of 20-60 µm;

an antimicrobial preservative comprising dimethyloldimethyldantoin;

a resin binder comprising an aqueous copolymer emulsion. an aqueous styrene acrylic copolymer emulsion; an ester alcohol; and

a polysiloxane emulsion.